

In the Claims:

Please add new claims 24-49 as follows:

24. A data communication method for use by a first modem in communication with a first system and a second system, said method comprising:

starting a physical connection process with a second modem over a communication line;

receiving second modem identification data from said second modem;

completing said physical connection process, after said receiving, to establish a data communication session with said second modem;

establishing an error corrected data channel over said communication line with said second modem;

establishing a non-error corrected data channel over said communication line with said second modem in response to said second modem identification data;

receiving information data from said second modem over said error corrected data channel;

transmitting said information data to said first system;

receiving diagnostics data from said second modem over said non-error corrected data channel; and

transmitting said diagnostics data to said second system.

25. The method of claim 24 further comprising: transmitting first modem manufacturer identification data to said second modem prior to said completing.

26. The method of claim 24, wherein said error corrected data channel and said non-error corrected channel are provided based on V.42 Recommendation.

27. The method of claim 24, wherein said diagnostics data are received via unnumbered information frames.

28. The method of claim 27, wherein each of said unnumbered information frames includes a diagnostics type field.

28. The method of claim 27, wherein each of said unnumbered information frames includes a frame type field indicative of a response frame or a command frame.

29. The method of claim 27, wherein each of said unnumbered information frames includes a diagnostics code field.

30. The method of claim 27, wherein each of said unnumbered information frames includes a diagnostics information field.

31. The method of claim 24, wherein said second modem identification data includes manufacturer identification data.

32. The method of claim 24, wherein said second modem identification data includes a call identifier created based on a previous call.

33. A first modem capable of communicating with a first system and a second system, said first modem comprising:

a handshaking module configured to start a physical connection process with a second modem over a communication line;

a receiver configured to receive second modem identification data from said second modem, wherein said handshaking module completes said physical connection process after said receiver receives said second modem identification data to establish a data communication session with said second modem; and

a processor configured to establish an error corrected data channel and a non-error corrected data over said communication line with said second modem in response to said second modem identification data;

wherein said processor receives information data from said second modem over said error corrected data channel and transmits said information data to said first system, and wherein said processor receives diagnostics data from said second modem over said non-error corrected data channel and transmits said diagnostics data to said second system.

34. The first modem of claim 33 further comprising: a transmitter configured to transmit first modem manufacturer identification data to said second modem prior to completing said physical connection process.

35. The first modem of claim 33, wherein said error corrected data channel and said non-error corrected channel are provided based on V.42 Recommendation.

36. The first modem of claim 33, wherein said diagnostics data are received via unnumbered information frames.

37. The first modem of claim 36, wherein each of said unnumbered information frames includes a diagnostics type field.

38. The first modem of claim 36, wherein each of said unnumbered information frames includes a frame type field indicative of a response frame or a command frame.

39. The first modem of claim 36, wherein each of said unnumbered information frames includes a diagnostics code field.

40. The first modem of claim 36, wherein each of said unnumbered information frames includes a diagnostics information field.

41. The first modem of claim 33, wherein said second modem identification data includes manufacturer identification data.

42. The first modem of claim 33, wherein said second modem identification data includes a call identifier created based on a previous call.

~~43.~~ A data communication method for use by a first modem in communication with a first system, a second system and a second modem, said method comprising:

establishing an error corrected data channel with said second modem;

establishing a non-error corrected data channel with said second modem;

receiving information data from said second modem over said error corrected data channel;

transmitting said information data to said first system;

receiving diagnostics data from said second modem over said non-error corrected data channel; and

transmitting said diagnostics data to said second system.

44. The method of claim 43, wherein said error corrected data channel and said non-error corrected channel are provided based on V.42 Recommendation.

45. The method of claim 43, wherein said diagnostics data are received via unnumbered information frames.

46. The method of claim 45, wherein each of said unnumbered information frames includes a diagnostics type field.

47. The method of claim 45, wherein each of said unnumbered information frames includes a frame type field indicative of a response frame or a command frame.

48. The method of claim 45, wherein each of said unnumbered information frames includes a diagnostics code field.

49. The method of claim 43, wherein each of said unnumbered information frames includes a diagnostics information field.
